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Sequence Listing was accepted.

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Reviewer: Anne Corrigan

Timestamp: [year=2008; month=3; day=12; hr=12; min=18; sec=8; ms=730; ]

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Application No: 09813453 Version No: 1.0

**Input Set:****Output Set:**

**Started:** 2008-03-11 12:51:07.155  
**Finished:** 2008-03-11 12:51:10.173  
**Elapsed:** 0 hr(s) 0 min(s) 3 sec(s) 18 ms  
**Total Warnings:** 18  
**Total Errors:** 0  
**No. of SeqIDs Defined:** 77  
**Actual SeqID Count:** 77

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# SEQUENCE LISTING

<110> Yocum, R. Rogers  
Patterson, Thomas A.

<120> MICROORGANISMS AND ASSAYS FOR THE IDENTIFICATION OF  
ANTIBIOTICS

<130> OGZ-001

<140> 09813453  
<141> 2001-03-20

<150> US 60/227,860  
<151> 2000-08-24

<150> 09/667,569  
<151> 2000-09-21

<160> 77

<170> PatentIn Ver. 2.0

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tat cat gat gga aaa tta gaa tat cac tgg cgt ata gaa aca agc agg 96  
Tyr His Asp Gly Lys Leu Glu Tyr His Trp Arg Ile Glu Thr Ser Arg  
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cat aaa aca gaa gat gag ttt ggg atg att ttg cgc tcc tta ttt gat 144  
His Lys Thr Glu Asp Glu Phe Gly Met Ile Leu Arg Ser Leu Phe Asp  
35 40 45  
  
cac tcc ggg ctt atg ttt gaa cag ata gat ggc att att att tcg tca 192  
His Ser Gly Leu Met Phe Glu Gln Ile Asp Gly Ile Ile Ile Ser Ser  
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gta gtg ccg cca atc atg ttt gcg tta gaa aga atg tgc aca aaa tac 240  
Val Val Pro Pro Ile Met Phe Ala Leu Glu Arg Met Cys Thr Lys Tyr  
65 70 75 80  
  
ttt cat atc gag cct caa att gtt ggt cca ggt atg aaa acc ggt tta 288  
Phe His Ile Glu Pro Gln Ile Val Gly Pro Gly Met Lys Thr Gly Leu  
85 90 95

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aat gct gtc gct gcg ata cac ttg tac ggc aat cca tta att gtt gtc	384
Asn Ala Val Ala Ala Ile His Leu Tyr Gly Asn Pro Leu Ile Val Val	
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gat ttc gga acc gcc aca acg tac tgc tat att gat gaa aac aaa caa	432
Asp Phe Gly Thr Ala Thr Thr Tyr Cys Tyr Ile Asp Glu Asn Lys Gln	
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tac atg ggc ggg gcg att gcc cct ggg att aca att tcg aca gag gcg	480
Tyr Met Gly Gly Ala Ile Ala Pro Gly Ile Thr Ile Ser Thr Glu Ala	
145150155160	
ctt tac tcg cgt gca gca aag ctt cct cgt atc gaa atc acc cgg ccc	528
Leu Tyr Ser Arg Ala Ala Lys Leu Pro Arg Ile Glu Ile Thr Arg Pro	
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Asp Asn Ile Ile Gly Lys Asn Thr Val Ser Ala Met Gln Ser Gly Ile	
180185190	
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Leu Phe Gly Tyr Val Gly Gln Val Glu Gly Ile Val Lys Arg Met Lys	
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Trp Gln Ala Lys Gln Asp Leu Lys Val Ile Ala Thr Gly Gly Leu Ala	
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Pro Leu Ile Ala Asn Glu Ser Asp Cys Ile Asp Ile Val Asp Pro Phe	
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His Lys Thr Glu Asp Glu Phe Gly Met Ile Leu Arg Ser Leu Phe Asp  
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His Ser Gly Leu Met Phe Glu Gln Ile Asp Gly Ile Ile Ile Ser Ser  
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Val Val Pro Pro Ile Met Phe Ala Leu Glu Arg Met Cys Thr Lys Tyr  
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Phe His Ile Glu Pro Gln Ile Val Gly Pro Gly Met Lys Thr Gly Leu  
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100 105 110

Asn Ala Val Ala Ala Ile His Leu Tyr Gly Asn Pro Leu Ile Val Val  
115 120 125

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145 150 155 160

Leu Tyr Ser Arg Ala Ala Lys Leu Pro Arg Ile Glu Ile Thr Arg Pro  
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Asp Asn Ile Ile Gly Lys Asn Thr Val Ser Ala Met Gln Ser Gly Ile  
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Leu Phe Gly Tyr Val Gly Gln Val Glu Gly Ile Val Lys Arg Met Lys  
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Trp Gln Ala Lys Gln Asp Leu Lys Val Ile Ala Thr Gly Gly Leu Ala  
210 215 220

Pro Leu Ile Ala Asn Glu Ser Asp Cys Ile Asp Ile Val Asp Pro Phe  
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<213> Clostridium acetobutylicum

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Ile Tyr Asn Asp Thr Lys Leu Thr Ala Glu Trp Arg Leu Ser Thr Asp  
35 40 45

Val Leu Arg Ser Ala Asp Glu Tyr Gly Ile Gln Val Met Asn Leu Phe  
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Gln Gln Asp Lys Leu Asp Pro Thr Leu Val Glu Gly Val Ile Ile Ser  
65 70 75 80

Ser Val Val Pro Asn Ile Met Tyr Ser Leu Glu His Met Ile Arg Lys  
85 90 95

Tyr Phe Lys Ile Asn Pro Leu Val Val Gly Pro Gly Ile Lys Thr Gly  
100 105 110

Ile Asn Ile Lys Tyr Asp Asn Pro Lys Glu Val Gly Ala Asp Arg Ile  
115 120 125

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130 135 140

Ile Asp Phe Gly Thr Ala Thr Thr Phe Cys Ala Val Arg Glu Asn Gly  
145 150 155 160

Asp Tyr Leu Gly Gly Ala Ile Cys Pro Gly Ile Lys Val Ser Ser Glu  
165 170 175

Ala Leu Phe Glu Lys Ala Ala Lys Leu Pro Arg Val Glu Leu Ile Lys  
180 185 190

Pro Ala Tyr Ala Ile Cys Lys Asn Thr Ile Ser Ser Ile Gln Ser Gly  
195 200 205

Ile Val Tyr Arg Tyr Leu Arg Gln Val Lys Tyr Leu Phe Glu Lys Leu  
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<212> PRT

<213> Streptomyces coelicolor

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Thr Arg Arg Tyr Tyr Gly Asp Val Pro Ala Val Leu Val Glu Pro Gly		
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Val Lys Thr Gly Val Pro Ile Leu Thr Asp His Pro Lys Glu Val Gly		
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Ala Asp Arg Ile Ile Asn Ala Val Ala Ala Val Glu Leu Tyr Gly Gly		
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Pro Ala Ile Val Val Asp Phe Gly Thr Ala Thr Thr Phe Asp Ala Val		
130	135	140
Ser Ala Arg Gly Glu Tyr Ile Gly Gly Val Ile Ala Pro Gly Ile Glu		
145	150	155
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Ile Ser Val Glu Ala Leu Gly Val Lys Gly Ala Gln Leu Arg Lys Ile		
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Glu Val Ala Arg Pro Arg Ser Val Ile Gly Lys Asn Thr Val Glu Ala		
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Met Gln Ser Gly Ile Val Tyr Gly Phe Ala Gly Gln Val Asp Gly Val		
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Val Asn Arg Met Ala Arg Glu Leu Ala Asp Asp Pro Asp Asp Val Thr		
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Val Ile Ala Thr Gly Gly Leu Ala Pro Met Val Leu Gly Glu Ser Ser		
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<213> Mycobacterium tuberculosis

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35 40 45

Gly Leu Ile Gly Glu Asp Ser Glu Arg Leu Thr Gly Thr Ala Ala Leu  
50 55 60

Ser Thr Val Pro Ser Val Leu His Glu Val Arg Ile Met Leu Asp Gln  
65 70 75 80

Tyr Trp Pro Ser Val Pro His Val Leu Ile Glu Pro Gly Val Arg Thr  
85 90 95

Gly Ile Pro Leu Leu Val Asp Asn Pro Lys Glu Val Gly Ala Asp Arg  
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Gly Glu Phe Leu Gly Gly Ala Ile Ala Pro Gly Val Gln Val Ser Ser  
145 150 155 160

Asp Ala Ala Ala Ala Arg Ser Ala Ala Leu Arg Arg Val Glu Leu Ala  
165 170 175

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180 185 190

Gly Ala Val Phe Gly Phe Ala Gly Leu Val Asp Gly Leu Val Gly Arg  
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Ile Arg Glu Asp Val Ser Gly Phe Ser Val Asp His Asp Val Ala Ile  
210 215 220

Val Ala Thr Gly His Thr Ala Pro Leu Leu Leu Pro Glu Leu His Thr  
225 230 235 240

Val Asp His Tyr Asp Gln His Leu Thr Leu Gln Gly Leu Arg Leu Val